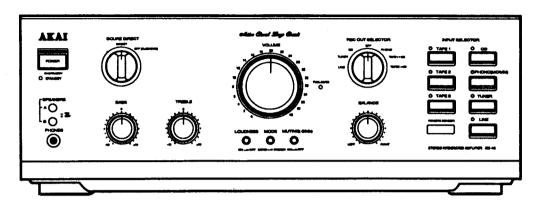
AKAI SERVICE MANUAL



MODEL AM-49

STEREO INTEGRATED AMPLIFIER

MODEL AM-39, 49

SPECIFICATIONS

Power output		S / N ratio	
AM-49	140 W + 140 W (DIN, 4 ohms	Phono (MM)	85 dB (IEC-A)
	at 1 kHz, 1% distortion)	Phono (MC)	
	80 W + 80 W (FTC, 8 ohms at 30 Hz		
	to 20 kHz, 0.05 % distortion)	Audio mute	
AM-39	100W + 100 W (DIN, 4 ohms	Full mute	
	at 1 kHz, 1% distortion)	Channel separation	65 dB (1 kHz) / 55 dB (10 kHz)
	60 W + 60 W (FTC, 8 ohms at 30 Hz		
	to 20 kHz, 0.05 % distortion)		90 dB (1kHz, 500 mV Inputievel)
Power band width	to no military		90 dB (1kHz, 500 mV Inputievel)
	5 Hz to 60 kHz / 0.1 % distortion	Required speaker impedar	• • •
	10 Hz to 60 kHz / 0.1% distortion	A or B	
Total harmonic distortion		A and B	
Frequency response	5 Hz to 100 kHz (+0 dB, - 3 dB)	1	220-230 V, 50 Hz for Europe except
Tone control	01121010011112(1000)	Tower requirements in the	U.K.
Bass	+ 10 dB (100 Hz)		240 V, 50 Hz for U.K.
Treble		Power consumption	240 1, 00 112 101 0.11.
Input sensitivity/Impedance		AM-49	210 W
Phono (MM)		AM-39	
Phono (MC)	200 uV / 100 obme		425 (W) x 156 (H) x 370 (D) nnm
		Weight	425 (44) X 156 (11) X 576 (D) 18 IIII
Tuner, CD, Tape	150 my / 47 komms	AM-49	10.0 kg
Maximum input level	150 1/		
Phono (MM)	O) ((a) tomo control flat)	AM-39	10.2 kg
Tuner, CD, Tape	9 V (at tone control flat)	Standard assessment	
Damping factor	48 (1 KHZ, 8 ONMS)	Standard accessory	4
Residual noise	U. I MV (IEC-A)	Remote control unit	
		Batteries for remote cont	
		Operator's manual	1

* For improvement purposes, specifications and design are subject to change without notice.

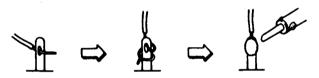
PRECAUTIONS DURING SERVICING

- Parts indentified by the \$\text{\Lambda}\$ (*) symbol are critical for safety. Replace them only with the parts number specified
- 2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.

These must also be replaced only with specified replacements.

Examples:RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.

- 3. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- 4. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers (Insulating Barriers)
 - 4) Insulation sheets for transistors
 - 5) Plastic screws for fixing micro switch (especially in turntable)
- When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap the ends of the wires securely around the terminals before soldering.



Make sure that wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.).

- Check that replaced wires do not contact sharp edged or pointed parts.
- 8. Also check areas surrounding repaired locations.
- 9. Make sure that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit.

The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphonejacks, signal-input/output connectors, etc.) and the earth ground through a resistor of 15Q0 ohms paralleled with a 0.15 μF capacitor, under the unit's normal working conditions. The leakage-current should be less than 0.5 mA rms AC.

The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 M ohms.

MAKE YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT

Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown into the garbage can.



Please leave them at an appropriate depot.

★INFORMATION

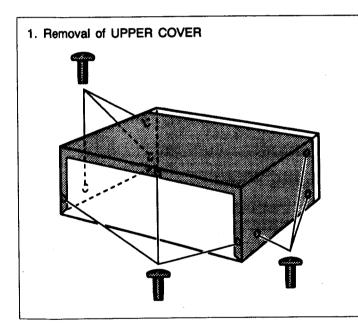
SYMBOLS FOR PRIMARY DESTINATION

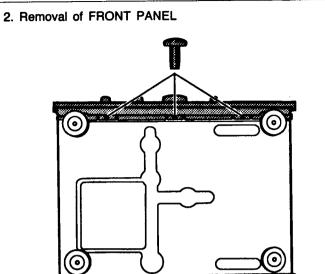
Alphabet indicates the destination of the units as listed below.

Symbols	Principal Destinations
A	U.S.A
В	U.K.
C	Canada
E	Europe (except UK)
J	Japan
<u>S</u>	Australia
V	Germany
Ū	Universal Area
Y*	Custom version

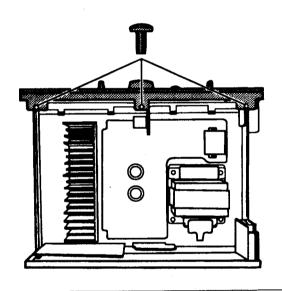
I. DISASSEMBLY

In case of trouble, etc., necessitating dismantling, please dismantle in the order shown in the illustrations. Reassemble in the reverse order.





Remove the six knobs by pulling them out.



II. PRINCIPAL PARTS LOCATION

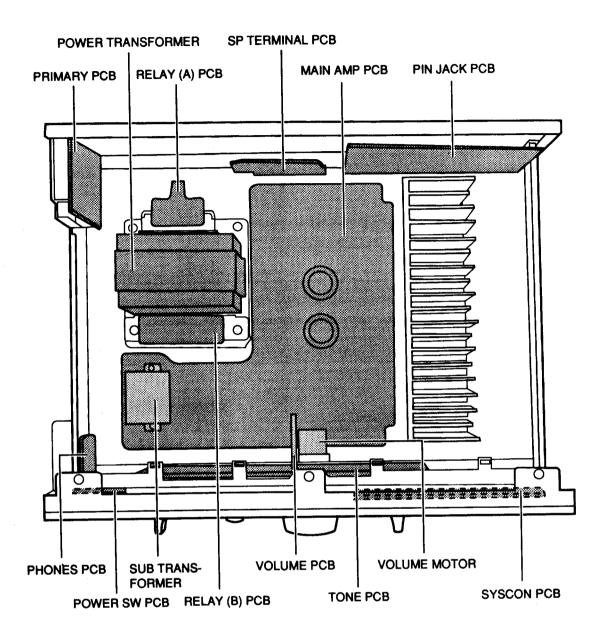
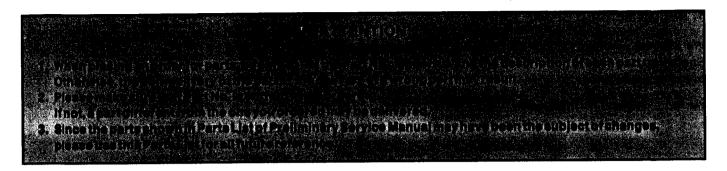


Fig.2-1



HOW TO USE THIS PARTS LIST

- 1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
- 2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
- 3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
- 4. How to read the Parts List.
 - a) Mechanism Block

2. HEAD BASE BLOCK

Ref. Part No. Description No. BH-T2023A320A **HEAD BASE BLOCK** HEAD R/P PR4-8FU C HP-H2206A010A 2 ZS-477876 PAN20×03STL CMT ZS-536488 BID20×08STL CMT SP CS ANGLE ADJUST ZG-402895 SP (Service Parts) Classification This number corresponds with the individ ual parts index number in that figure.

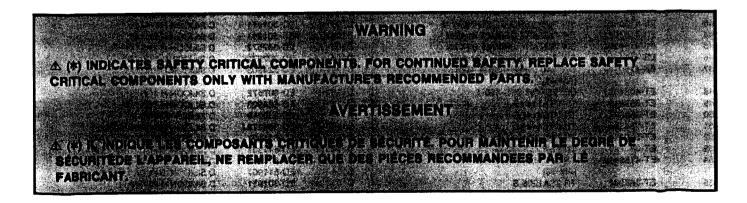
b) PC Board

6. MAIN PC BOARD

	ef. o.	Part No.	Description
IC	21	EI-324536	IC HD14049BP
IC	2	EI-336801	IC MB8841-564M
С	1A	EC-338399	C MMY V 223M 250AC [U,E,B,S]
C	1B	EC-350949	C MMY V 223M 250DC [J]
С	1C	EC-338397	C MMY V 223M 125AC [C,A]
Х	1	El-318384	OSC X'TAL NC-18C
1		[A] :AAL (U.S [B] :BEAB (E [C] :CSA (Ca [E] :CEE (Eu [J] :JPN (Jap SP (Ser	rope) [V]:VDE (Germany) pan) [Y]:Custom Version vice Parts) Classification reference symbols correspond
			mponent symbols in the atic Diagrams.

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No.listed at right of Part No.



1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref. No.	Part No.	Description
1	AX-415040M	REMOCON RC-S49
2	AX-415115M	[AM-39] REMOCON RC-S59
3	*BT-415038M	[AM-49] TRANS POW A1030S-BS
4	*BT-415037M	[B) TRANS POW A1030S-EV [E]
5	*BT-415111M	TRANS POW A2075-BS [AM-39][T901]
6	*BT-415110M	TRANS POW A2075-EV [AM-39][T901]
7	*BT-415114M	TRANS POW A2076-BS [AM-49][T901]
8	*BT-415112M	TRANS POW A2076-EV [AM-49](T901]
9	*EC-368118	C DBL LAYER EECS5R5H 224 5.5DC
10	EC-364978	C EC V CUT SME 102M 16.0DC
11	EC-373373	C EC V CUT 822M 56.0DC [AM-49]
12	EC-390066J	C EC V S10 682M 50.0DC [AM-39]
13	ED-403436J	D LED SLR-33VCF03 RED T05
14	ED-415085J	D LED SLR-33VC3F RED
15	ED-383034J	D LED SLR-54PC3F L,M GREEN
16	ED-400680J	D LED SLR33MCF3 GREEN T05
17	ED-403987J	D LED SLR33MC3F GREEN
18	ED-301911	D SILICON H DS448
19	ED-307572	D SILICON H 1SS131 D SILICON H 1S2473
20	ED-624903 *ED-384278J	D SILICON RBV602 200/6.0A
21 22	*ED-3642763	D SILICON 1N4002 100/1.0A
23	*ED-311907	D ZENER H HZ12 A3
24	*ED-313170	D ZENER H HZ16-2L
25	ED-330219	D ZENER H HZ20-2L
26	*ED-346529	D ZENER H HZ6C2L
27	*EF-415060J	FUSE \$504 T 250V 630MA
28	*EF-415061J	FUSE S506 T 250V 2.50A [AM-39]
29	*EF-415062J	FUSE S506 T 250V 3.15A [AM-49]
30	El-416800J	IC LC66404A-4B67 A2075-1
31	EI-403530J	IC LC7822N
32	*EI-393323J	IC M5218AL-771 IC M5218AP-721
33 34	EI-393326J EI-382875J	OSC CE CST4.00MGW 4MHZ
35	*EJ-415050J	SOCKET OUT M1882 3P
36	*EQ-415055J	[E] RELAY POW VS-6MB 1NO 6V
37	EQ-403529J1	RELAY POW 12S MBU524UL3 2NO12V
38	EQ-400957J	RELAY SIG RY12W-OH-K 2TR 12V
39	*ER-341493	R FUSE H S10 ERD2FC 1/4W 1001G
40	*ER-344161	R FUSE H S10 ERD2FC 1/4W 82R0G
41	ES-415119J	SW PUSH SPEC21 2THROW * [AM-39]
42	ES-415120J	SW PUSH SPEC31 3THROW * [AM-49]
43 44	ES-415087J ES-415126J	SW PUSH SPUL21 2THROW N SW ROTARY SRBV17 01-07N
44 45	ES-415099J	SW ROTARY SRBV22 02-02N
46	ES-415123J	SW SLIDE SSSU04 2-04-02S
47	ES-415046J	SW TACT SOR-132HS T05
		[AM-49]
48	ET-403432J	DETECTOR SPS-420-1
49	ET-369248	TR DTA114YS
50	ET-353897	TR DTC114ES
51 50	ET-354365	TR DTC114YS
52 53	ET-322353	TR FET 2SK117 Y TR FET 2SK170 BL
53 54	ET-360749 *ET-415051J	TR 2SA1186 P,Y LF118 [AM-39]
55	ET-368048	TR 2SA1208 S [AM-49]
56	*ET-345626	TR 2SA1248 S,T

Ref. No.	Part No.	Description
57	*ET-415052J	TR 2SA1303 P,Y LF118
	FT 050000	[AM-49]
58	ET-353899	TR 2SA1317 S,T,U
5 9	*ET-352726	TR 2SA1392 T,U
60	ET-305463	TR 2SA970 GR,BL
		[AM-39]
61	ET-307195	TR 2SC2240 GR,BL
62	*ET-415053J	TR 2SC2837 P,Y LF118
		[AM-39]
63	ET-368047	TR 2SC2910 S
		[AM-49]
64	*ET-345625	TR 2SC3116 S,T
65	*ET-415056J	TR 2SC3284 P,Y LF118
		[AM-49]
66	ET-397160J	TR 2SC3330 R,S,T,U,V
67	*ET-378524J	TR 2SC3383 S,T,U
68	ET-394735J	TR 2SC3792 T05
69	*ET-376880	TR 2SD1266 P

2. P.C BOARD BLOCK

Ref. No.	Part No.	Description
1-A	BA-A1030T020F	ML PC (#) MAIN BLK AM-39 (E)/ML
1-B	BA-A1030T020G	ML PC (#) MAIN BLK AM-39 (B)/ML
1-C	BA-A1030T020H	ML PC (#) MAIN BLK AM-49 (E)/ML
1-D	BA-A1030T020J	ML PC (#) MAIN BLK AM-49 (B)/ML
2-A	BA-A2075T030A	ML PC (#) PRE-SYSBLK AM-39 (E)/ML
2-B		ML PC (#) PRE-SYSBLK AM-39 (B)/ML
2-C	BA-A2075T030C	ML PC (#) PRE-SYSBLK AM-49 (E)/ML
2-D		ML PC (#) PRE-SYSBLK AM-49 (B)/ML

PC (#) MAIN BLK CONSISTS OF FOLLOWING P.C BOARDS.

- MAIN AMP P.C BOARD
- PRIMARY P.C BOARD
- SP TERMINAL P.C BOARD
 PHONES P.C BOARD

PC (#) PRE-SYS BLK CONSISTS OF FOLLOWING P.C BOARDS.

- PIN JACK P.C BOARD
- TONE P.C BOARD
- VOLUME P.C BOARD
 SYSCON P.C BOARD
- POWER SW P.C BOARD

3. MAIN AMP P.C BOARD

Ref. No.	Part No.	Description
C150-A	EC-390066J	C EC V \$10 682M 50.0DC
		[AM-39]
C150-B	EC-373373	C EC V CUT 822M 56.0DC
	50.000001	[AM-49]
C151-A	EC-390066J	C EC V S10 682M 50.0DC
0454 B	EC-373373	[AM-39] C EC V CUT 822M 56.0DC
C151-B	EU-3/33/3	[AM-49]
C159	EC-364978	C EC V CUT SME 102M 16.0DC
D103	ED-301911	D SILICON H DS448
D103	ED-301911	D SILICON H DS448
D104 D105	*ED-301911	D SILICON H DS448
D105	ED-307572	D SILICON H 155131
D106	ED-307572	D SILICON H 188131
D107	ED-624903	D SILICON H 1S2473
D108	ED-307572	D SILICON H 1SS131
	ED-307572	D SILICON H 155131
D110	ED-30/5/2 ED-624903	D SILICON H 155131 D SILICON H 152473
D111		D ZENER H HZ20-2L
D112	ED-330219	
D150	*ED-384278J	D SILICON RBV602 200/6.0A
D151	*ED-511907	D SILICON 1N4002 100/1.0A
D152	*ED-511907	D SILICON 1N4002 100/1.0A
D153	*ED-511907	D SILICON 1N4002 100/1.0A
D154	*ED-511907	D SILICON 1N4002 100/1.0A
D155	ED-301911	D SILICON H DS448
D156	ED-301911	D SILICON H DS448
D157	ED-301911	D SILICON H DS448

Ref. No.	Part No.	Description
D158	ED-301911	D SILICON H DS448
D159	*ED-343421	D ZENER H HZ16-2L D ZENER H HZ16-2L
D160 D161	*ED-343421 *ED-511907	D SILICON 1N4002 100/1.0A
D162	*ED-511907	D SILICON 1N4002 100/1.0A
D163	*ED-511907	D SILICON 1N4002 100/1.0A
D164 D165	*ED-511907 ED-301911	D SILICON 1N4002 100/1.0A D SILICON H DS448
D166	ED-301911	D SILICON H DS448
D167	*ED-346529	D ZENER H HZ6C2L
D170	ED-383034J	D LED SLR-54PC3F L,M GREEN D SILICON H DS448
D203 D204	ED-301911 ED-301911	D SILICON H DS448
D205	*ED-301911	D SILICON H DS448
D206	ED-307572	D SILICON H 1SS131
D207 D270	ED-307572 ED-383034J	D SILICON H 1SS131 D LED SLR-54PC3F L,M GREEN
FR101	*ER-341493	R FUSE H S10 ERD2FC 1/4W 1001G
FR102	*ER-341493	R FUSE H S10 ERD2FC 1/4W 1001G
FR201	*ER-341493	R FUSE H S10 ERD2FC 1/4W 1001G R FUSE H S10 ERD2FC 1/4W 1001G
FR202 IC101	*ER-341493 *EI-393323J	IC M5218AL-771
L101	EO-403613J	COIL FIX 2 202AK-018A 2R2K
L201	EO-403613J	COIL FIX 2 202AK-018A 2R2K
R115 R118	*ER-382613J *ER-382613J	R CB H S10FLR RDS 1/4W 331J R CB H S10FLR RDS 1/4W 331J
R120	*ER-382613J	R CB H S10FLR RDS 1/4W 331J
R122	*ER-378514J	R OMF H S12 FS 1W 8R2J
R123	*ER-378514J	R OMF H S12 FS 1W 8R2J
R125 R126	*ER-368284 *ER-383007J	R OMF H S12 FS 1W 271J R OMF H S12 FS 1W 1R0J
R127	*ER-383007J	R OMF H S12 FS 1W 1R0J
R128	*ER-324480	R CB H S10 FS RDS 1/4W 470J
R129 R130	*ER-324480 *ER-368226	R CB H S10 FS RDS 1/4W 470J R CT P R33+R33 5W
R131	*ER-333119	R OMF H S20 FS 2W 560J
R132	*ER-411836J	R OMF H S15 FS 2W 1R0J
R166	*ER-378833J	R CB H S10FLR RDS 1/4W 220J
R169 R175	*ER-378833J *ER-328069	R CB H S10FLR RDS 1/4W 220J R CB H S10 FS RDS 1/4W 2R7J
R182	*ER-328069	R CB H S10 FS RDS 1/4W 2R7J
R215	*ER-382613J	R CB H S10FLR RDS 1/4W 331J
R218 R220	*ER-382613J *ER-382613J	R CB H S10FLR RDS 1/4W 331J R CB H S10FLR RDS 1/4W 331J
R222	*ER-378514J	R OMF H S12 FS 1W 8R2J
R223	*ER-378514J	R OMF H S12 FS 1W 8R2J
R225 R226	*ER-368284 *ER-383007J	R OMF H S12 FS 1W 271J R OMF H S12 FS 1W 1R0J
R227	*ER-383007J	R OMF H S12 FS 1W 1R0J
R230	*ER-368226	R CT P R33+R33 5W
R231	*ER-333119	R OMF H S20 FS 2W 560J R OMF H S15 FS 2W 1R0J
R232 RL101	*ER-411836J EQ-403529J1	RELAY POW 12S MBU524UL3 2NO12V
T101-A	*BT-415037M	TRANS POW A1030S-EV
T101 D	4DT 445000M	[E]
1101-B	*BT-415038M	TRANS POW A1030S-BS
TR101	ET-322353	TR FET 2SK117 Y
TR102	ET-307195	TR 2SC2240 GR,BL
TR103 TR104	ET-307195 *ET-307195	TR 2SC2240 GR,BL TR 2SC2240 GR,BL
TR105-A		TR 2SA970 GR,BL
		[AM-39]
TR105-B	ET-368048	TR 2SA1208 S [AM-49]
TR106-A	*ET-305463	TR 2SA970 GR,BL
TR106-R	*ET-368048	[AM-39] TR 2SA1208 S
		[AM-49]
	*ET-305463	TR 2SA970 GR,BL [AM-39]
	*ET-368048	TR 2SA1208 S [AM-49]
	ET-305463	TR 2SA970 GR,BL [AM-39]
	ET-368048	TR 2SA1208 S [AM-49]
	ET-369047	TR 2SC2240 GR,BL [AM-39] TR 2SC2910 S
	ET-368047	[AM-49]
TR110	*ET-378524J	TR 2SC3383 S,T,U

Ref. No.	Part No.	Description
TR111	*ET-378524J	TR 2SC3383 S,T,U
TR112	*ET-352726	TR 2SA1392 T.U
TR113	*ET-345625	TR 2SC3116 S.T
		TR 2SA1248 S,T
TR114	*ET-345626	
TR115-A	*ET-415053J	TR 2SC2837 P,Y LF118 [AM-39]
TR115-B	*ET-415056J	TR 2SC3284 P,Y LF118 [AM-49]
TR116-A	*ET-415051J	TR 2SA1186 P,Y LF118 [AM-39]
TR116-B	*ET-415052J	TR 2SA1303 P,Y LF118 [AM-49]
TR117	ET-305463	TR 2SA970 GR,BL
TR118	ET-397160J	TR 2SC3330 R,S,T,U,V
TR119	ET-353899	TR 2SA1317 S,T,U
TR120	ET-397160J	TR 2SC3330 R,S,T,U,V
TR121	ET-397160J	TR 2SC3330 R,S,T,U,V
TR122	ET-397160J	TR 2SC3330 R,S,T,U,V
TR123	ET-397160J	TR 2SC3330 R,S,T,U,V
TR150	ET-352726	TR 2SA1392 T,U
TR151	*ET-376880	TR 2SD1266 P
	ET-378524J	TR 2SC3383 S.T.U
TR152		TR 2SA1248 S.T
TR153	*ET-345626	
TR154	ET-352726	TR 2SA1392 T,U
TR155	*ET-345625	TR 2SC3116 S,T
TR156	ET-397160J	TR 2SC3330 R,S,T,U,V
TR157	*ET-378524J	TR 2SC3383 S,T,U
TR158	*ET-345625	TR 2SC3116 S,T
TR201	ET-322353	TR FET 2SK117 Y
TR202	ET-307195	TR 2SC2240 GR,BL
TR203	ET-307195	TR 2SC2240 GR,BL
TR204	*ET-307195	TR 2SC2240 GR.BL
TR205-A	*ET-305463	TR 2SA970 GR,BL [AM-39]
TR205-B	*ET-368048	TR 2SA1208 S [AM-49]
TR206-A	*ET-305463	TR 2SA970 GR,BL [AM-39]
TR206-B	*ET-368048	TR 2SA1208 S [AM-49]
TR207-A	*ET-305463	TR 2SA970 GR,BL [AM-39]
TR207-B	*ET-368048	TR 2SA1208 S [AM-49]
TR208-A	ET-305463	TR 2SA970 GR,BL [AM-39]
TR208-B	ET-368048	TR 2SA1208 S [AM-49]
TR209-A	ET-307195 ET-368047	TR 2SC2240 GR,BL [AM-39] TR 2SC2910 S
TR210	*ET-378524J	[AM-49] TR 2SC3383 S,T,U
TR211	*ET-378524J	TR 2SC3383 S,T,U
		TR 2SA1392 T,U
TR212	*ET-352726	
TR213	*ET-345625	TR 2SC3116 S,T
TR214	*ET-345626	TR 2SA1248 S,T
TR215-A		TR 2SC2837 P,Y LF118 [AM-39]
TR215-B		TR 2SC3284 P,Y LF118 [AM-49]
	*ET-415051J	TR 2SA1186 P,Y LF118 [AM-39]
	*ET-415052J	TR 2SA1303 P,Y LF118 [AM-49]
TR217	ET-305463	TR 2SA970 GR,BL
F2	*EF-415060J	FUSE S504 T 250V 630M
F3	*EF-415060J	FUSE S504 T 250V 630M

4. PRIMARY P.C BOARD

Ref. No.	Part No.	Description
C301 D301 J302	*EC-338496 ED-624903 *EJ-415050J	C CE V DE7100 FZ 472P 400AC D SILICON H 1S2473 SOCKET OUT M1882 3P
L301 L302 RL301 F1-A	*EO-403613J *EO-403613J *EQ-415055J *FF-415061J	[E] COIL FIX 2 202AK-018A 2R2K COIL FIX 2 202AK-018A 2R2K RELAY POW VS-6MB 1NO 6V FUSE S506 T 250V 2.50A
F1-B	*EF-415062J	[AM-39] FUSE S506 T 250V 3.15A [AM-49]

5. SP TERMINAL P.C BOARD

Ref. No.	Part No.	Description
TM401	EJ-342935	TERMINAL W/SCREW YKD31-0132P8P

6. PHONES P.C BOARD

Ref. No.	Part No.	Description
J501 R501 R551 SW501	EJ-391132J *ER-333108 *ER-333108 ES-415087J	PHONE J 3P YKB24-5162 GP 6.3 R OMF H S20 FS 2W 471J R OMF H S20 FS 2W 471J SW PUSH SPUL21 2THROW N

7. PIN JACK P.C BOARD

Ref. No.	Part No.	Description
D1	ED-301911	D SILICON H DS448
D2	ED-301911	D SILICON H DS448
FR41	*ER-344161	R FUSE H S10 ERD2FC 1/4W 82R0G
FR42	*ER-344161	R FUSE H S10 ERD2FC 1/4W 82R0G
IC1	EI-393326J	IC M5218AP-721
IC2	EI-403530J	IC LC7822N
IC3	EI-403530J	IC LC7822N
J1	EJ-384270J	PIN J T6227-AACB 2P
J2	EJ-368244	PIN J T6087 6P
J3	EJ-382362J	PIN J T6027-AABB 4P
J4	EJ-382362J	PIN J T6027-AABB 4P
J5	EJ-382362J	PIN J T6027-AABB 4P
		[AM-49]
SW1	ES-415123J	SW SLIDE SSSU04 2-04-02S
TR1	ET-360749	TR FET 2SK170 BL
TR2	ET-360749	TR FET 2SK170 BL
TR3	ET-394735J	
TR4	ET-394735J	TR 2SC3792 T05
TR5	ET-394735J	TR 2SC3792 T05
TR6	ET-394735J	TR 2SC3792 T05
TR7	ET-394735J	TR 2SC3792,T05
TR51	ET-360749	TR FET 2SK170 BL
TR52	ET-360749	TR FET 2SK170 BL
TR53	ET-394735J	TR 2SC3792 T05
TR54	ET-394735J	TR 2SC3792 T05
TR55	ET-394735J	TR 2SC3792 T05
TR56	ET-394735J	TR 2SC3792 T05
TR57	ET-394735J	TR 2\$C3792 T05

8. TONE P.C BOARD

Ref. No.	Part No.	Description
D101	*ED-319176	D ZENER H HZ12 A3
D102	ED-624903	D SILICON H 1S2473
IC101	EI-393323J	IC M5218AL-771
IC102	EI-393323J	IC M5218AL-771
RL101	EQ-400957J	RELAY SIG RY12W-OH-K 2TR 12V
SW101-A	ES-415119J	SW PUSH SPEC21 2THROW *
		[AM-39]
SW101-B	ES-415120J	SW PUSH SPEC31 3THROW *
		[AM-49]
SW102	ES-415099J	SW ROTARY SRBV22 02-02N
SW103	ES-415126J	SW ROTARY SRBV17 01-07N
TR101	ET-397160J	TR 2SC3330 R,S,T,U,V
TR102	ET-397160J	TR 2SC3330 R,S,T,U,V
VR101	EV-401270J	VR ROTARY RK16312 B103X2
VR102	EV-401270J	VR ROTARY RK16312 B103X2
VR103	EV-403534J	VR ROTARY RK1631220 SPL W104

9. VOLUME P.C BOARD

Ref. No.	Part No.	Description
D201	ED-301911	D SILICON H DS448
TR201	ET-353899	TR 2SA1317 S,T,U
TR202	ET-353899	TR 2SA1317 S,T,U
TR203	ET-397160J	TR 2SC3330 R,S,T,U,V
TR204	ET-397160J	TR 2SC3330 R,S,T,U,V
VR201	EV-415032M	VR SPL EUWM HD003 B15 B104X2

10. SYSCON P.C BOARD

S5R5H 224 5.5DC
3
3
3
3 RED T05
GREEN T05
A2075-1
:0-1 ·
J,V
HS T05
HS T05
HS TO5
HS T05
HS T05
HS T05
HS TO5
GW 4MHZ

11. POWER SW P.C BOARD

Ref. No.	Part No.	Description
D851	ED-415085J	D LED SLR-33VC3F RED
D852	ED-403987J	D LED SLR33MC3F GREEN
D853	ED-403987J	D LED SLR33MC3F GREEN
TS851	ES-415046J	SW TACT SOR-132HS T05

AKAI

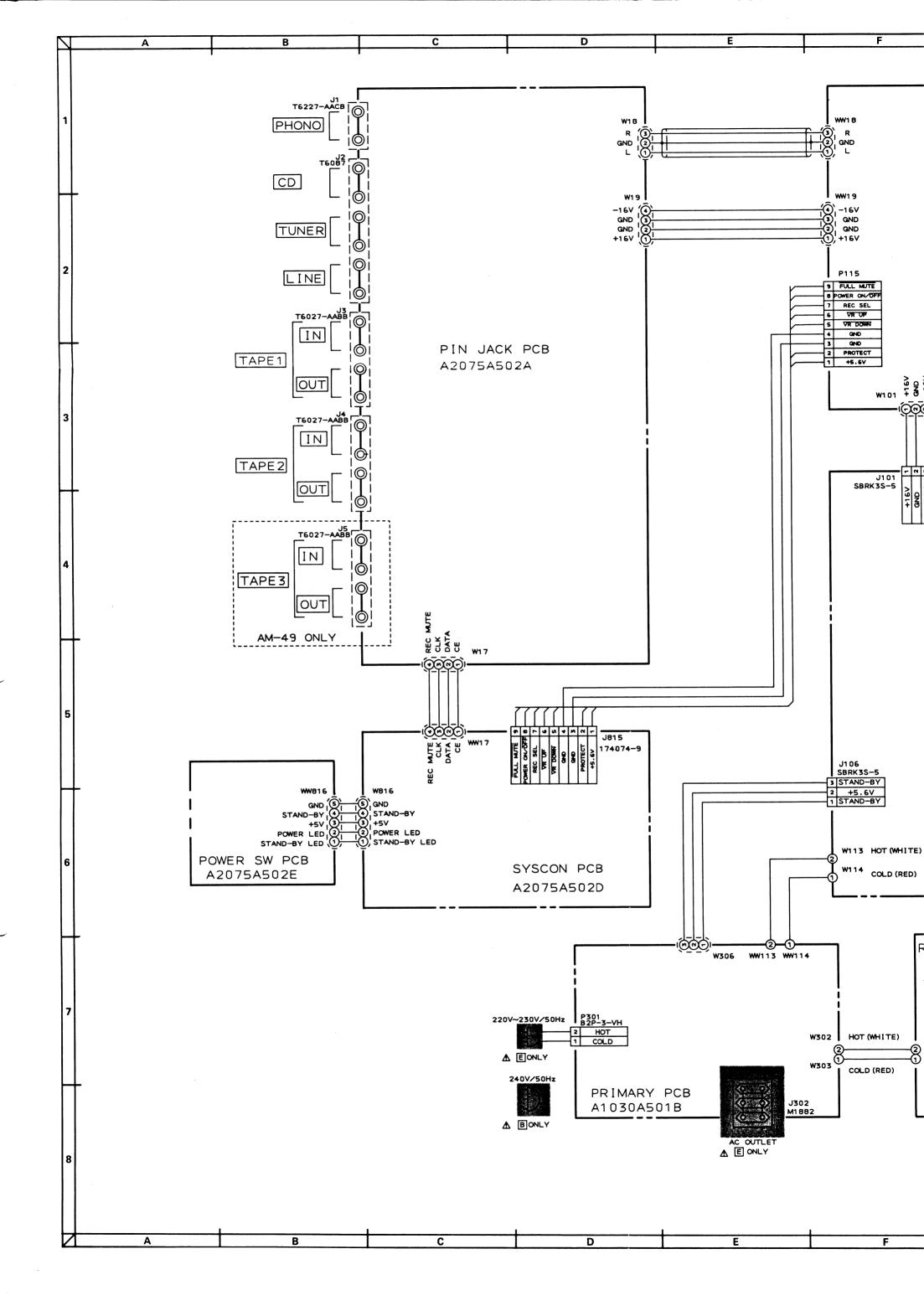
MODEL AM-39
MODEL AM-49

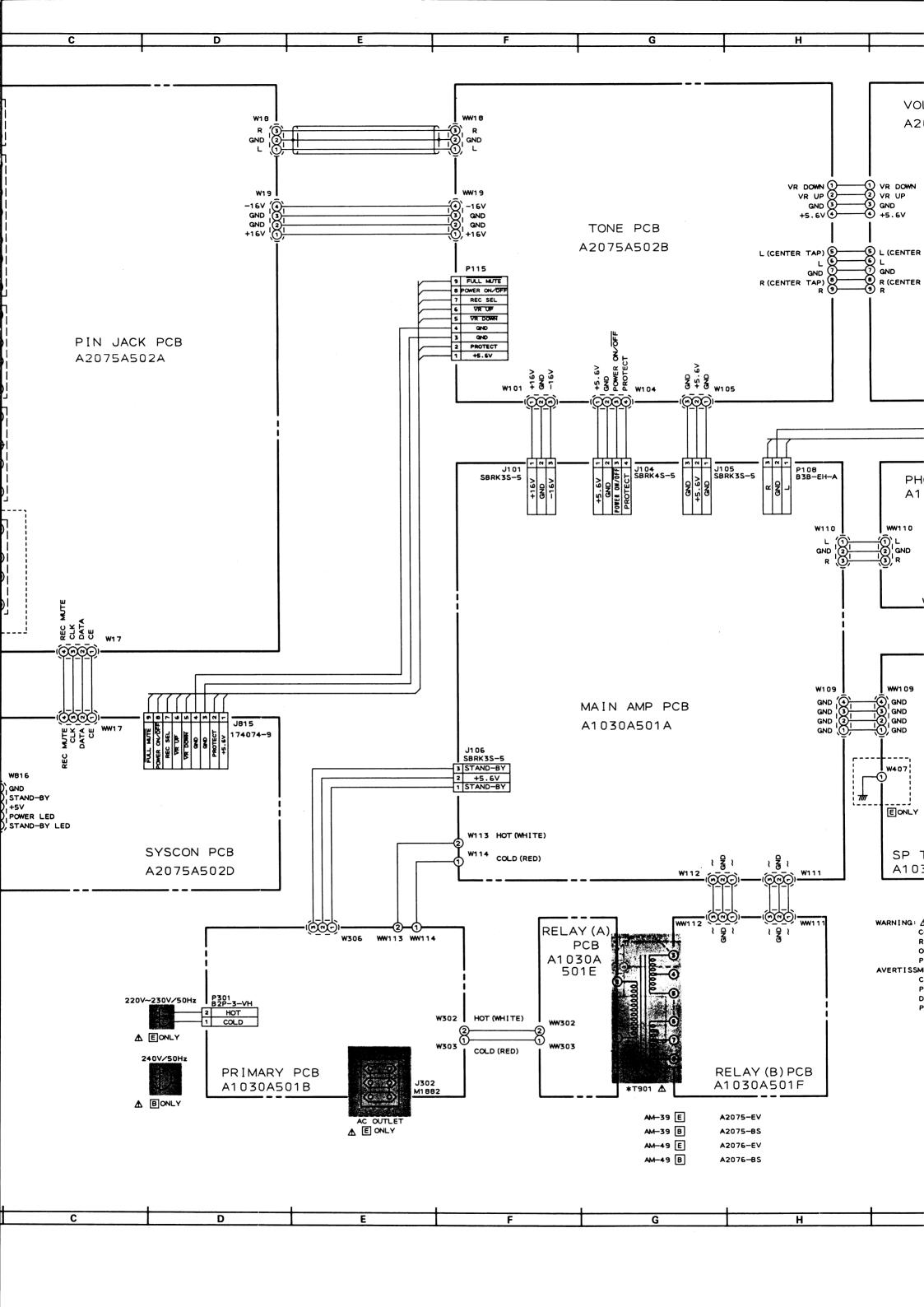
SCHEMATIC DIAGRAMS AND PC BOARDS

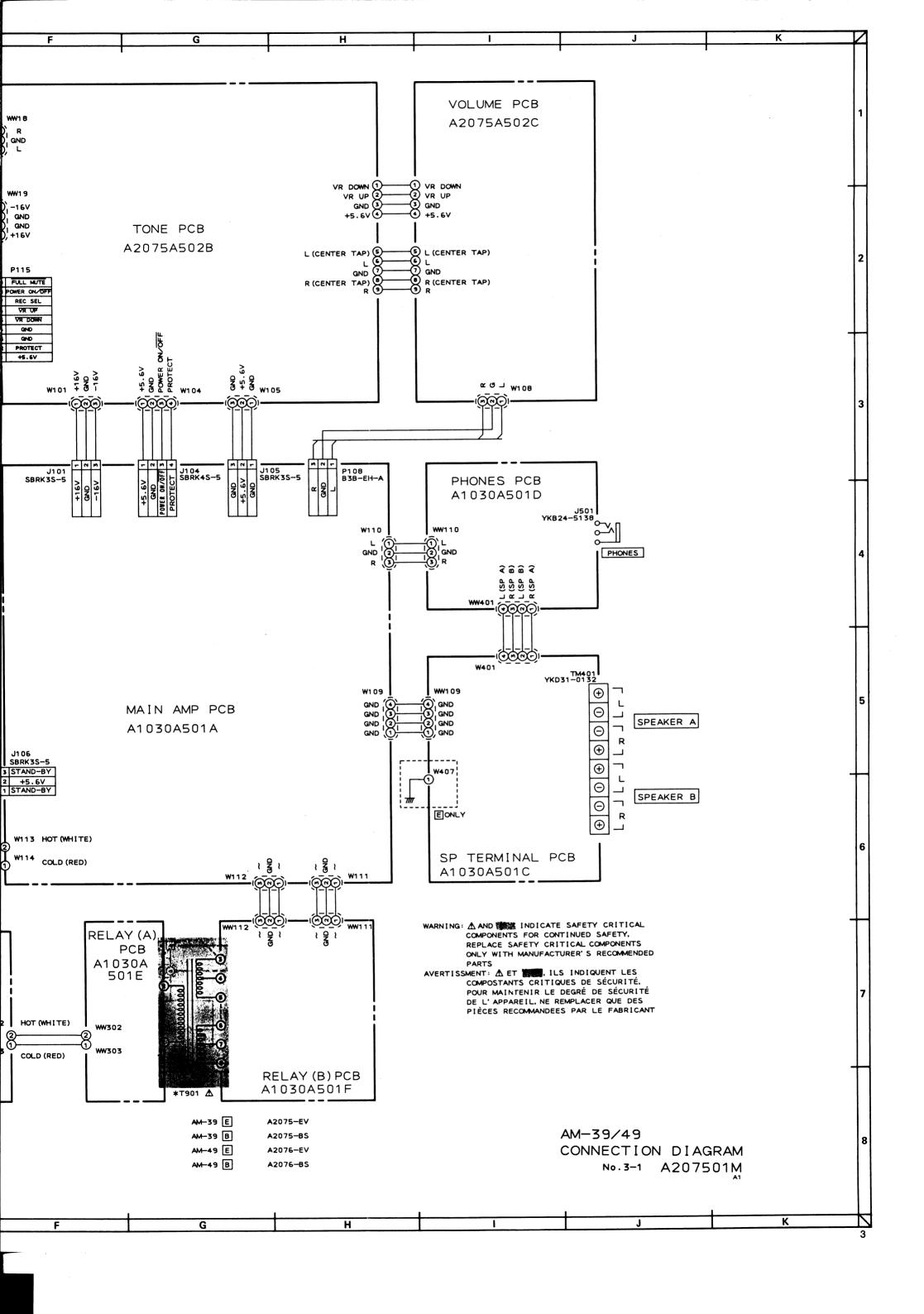
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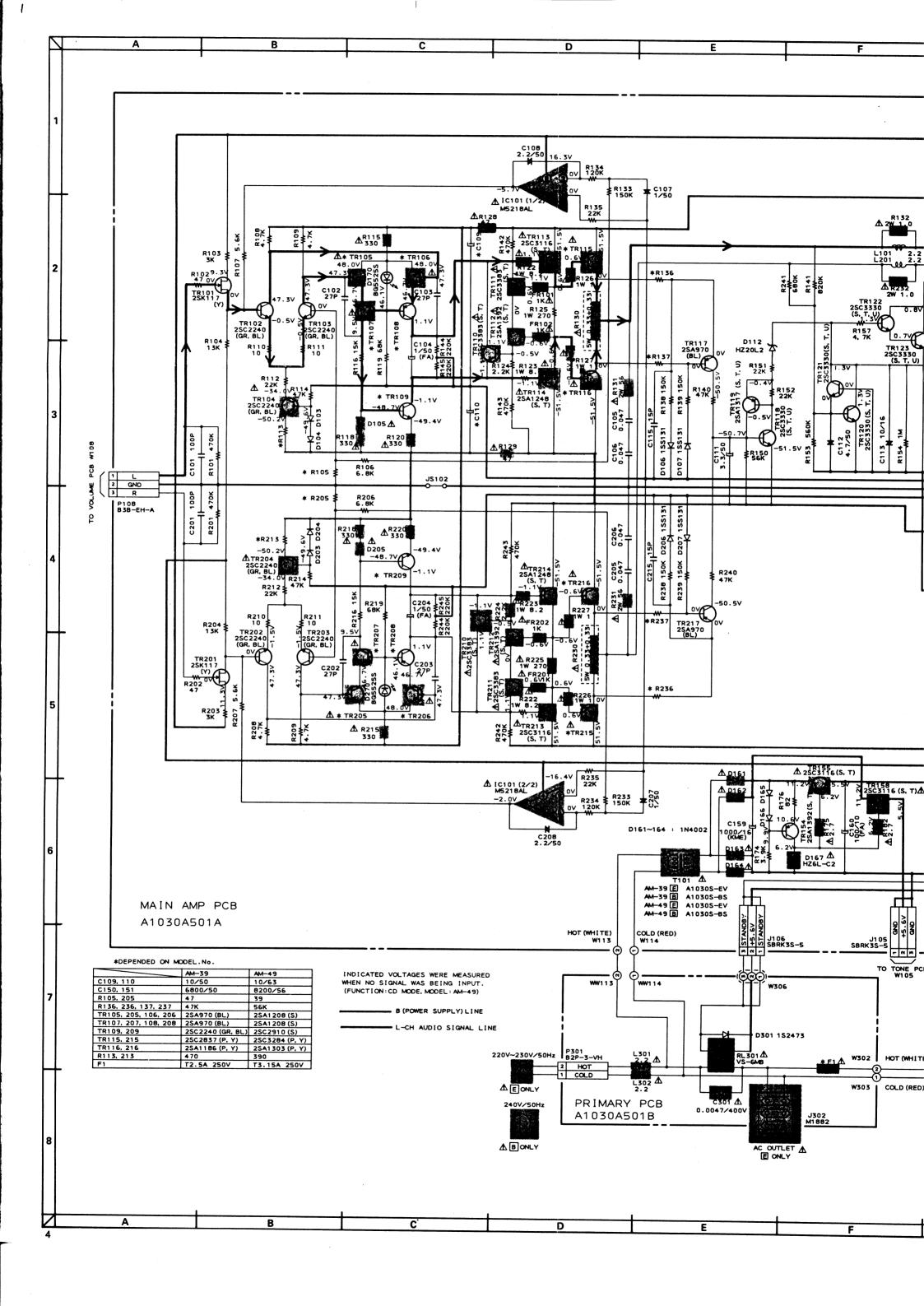
1.	CONNECTION DIAGRAM	3
2.	MAIN AMP & POWER SCHEMATIC DIAGRAM	4
3.	MAIN AMP AND OTHER PC BOARDS	5
4.	PRE AMP & SYSCON SCHEMATIC DIAGRAM	6
	TONE AND OTHER PC BOARDS	
6.	BLOCK DIAGRAM	8
8.	INFORMATION OF ICs	g

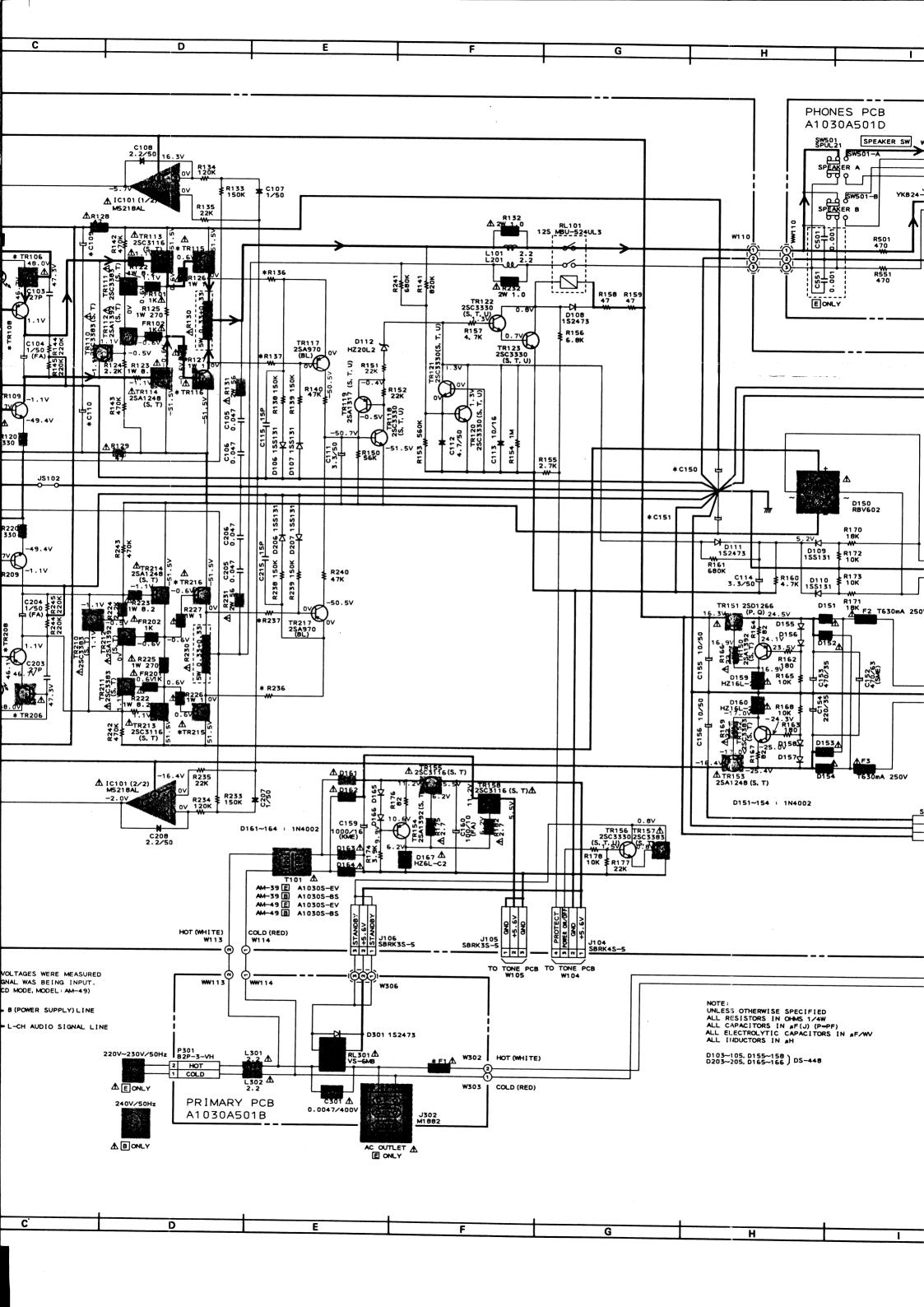
Use these schematic diagrams and PC boards together with the provided service manual.

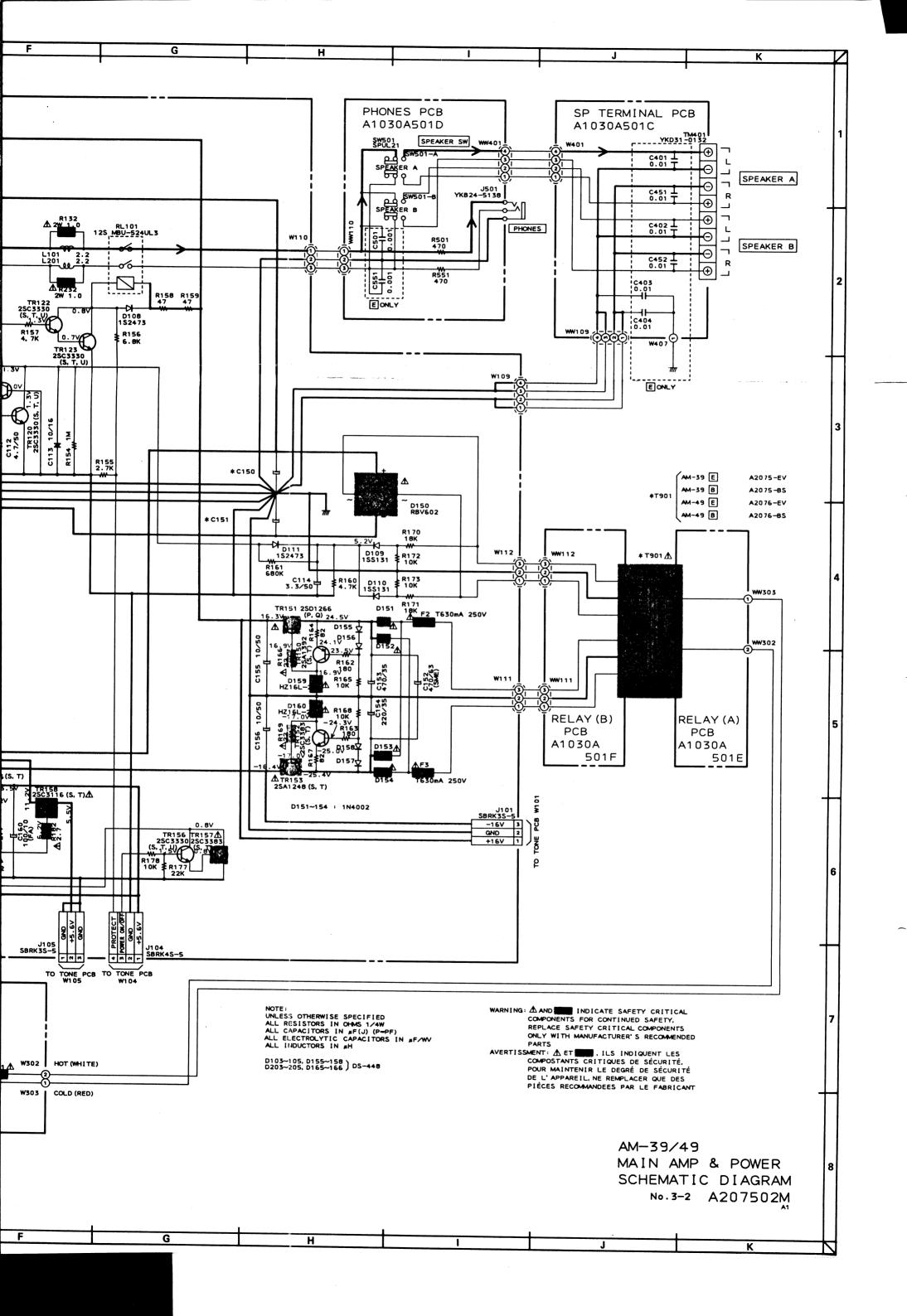


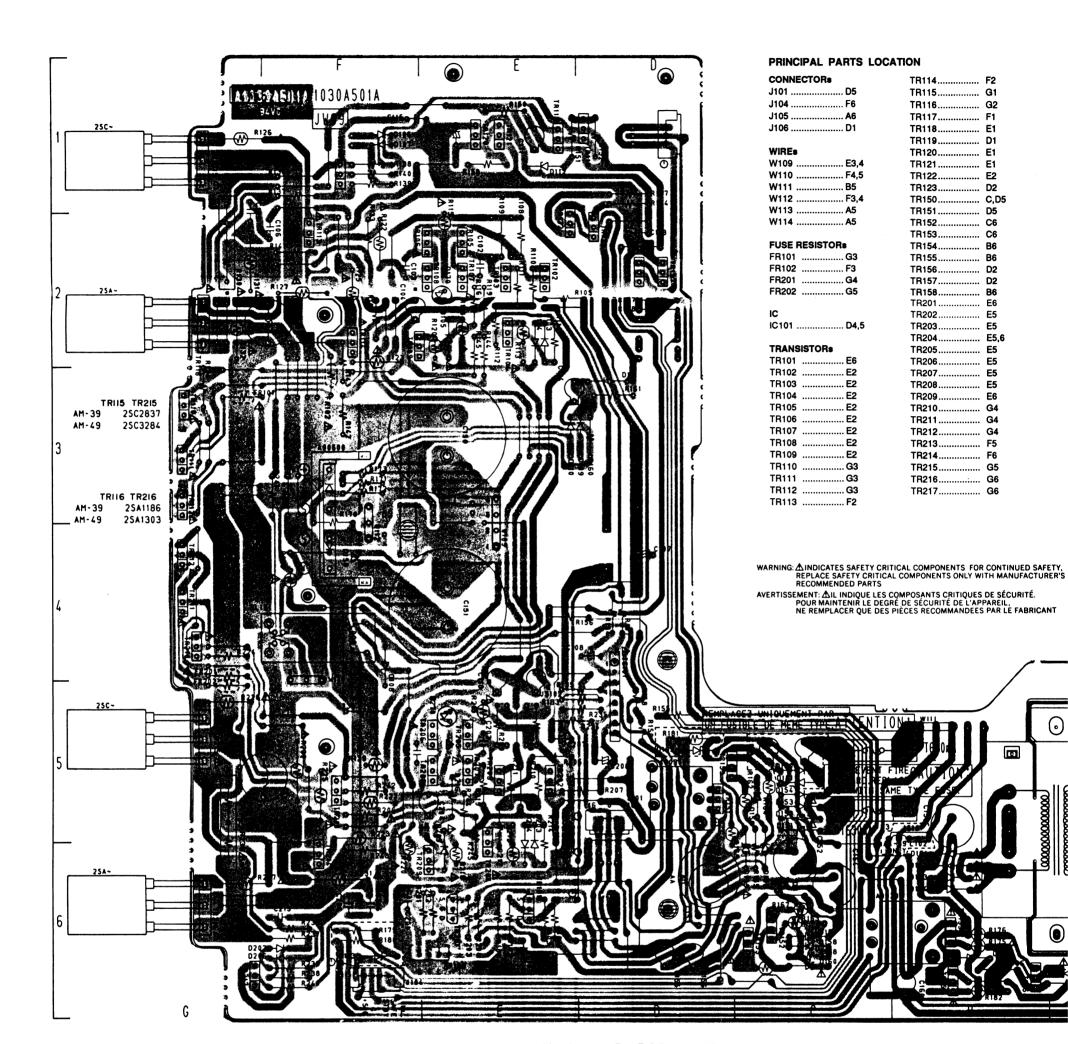






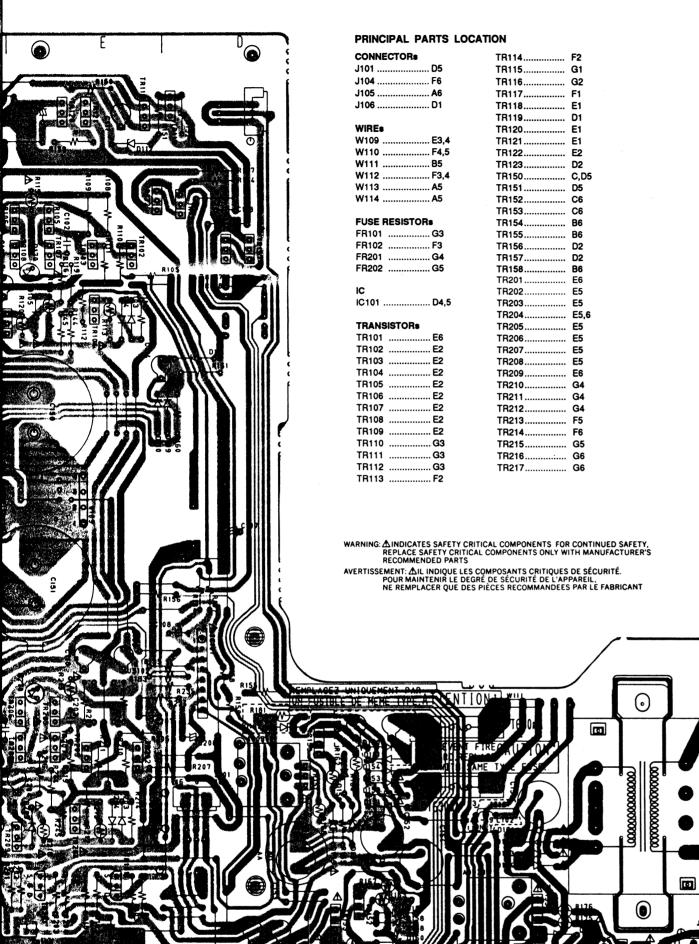






MAIN AMP PCB A1030A50IA

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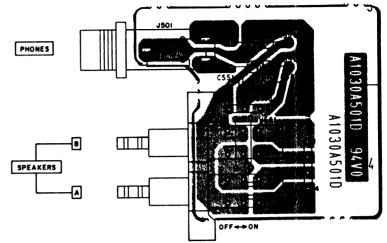


A1030A501A

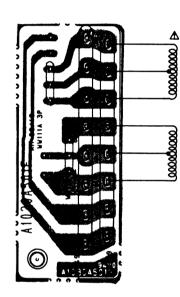
AMP PCB

MAIN

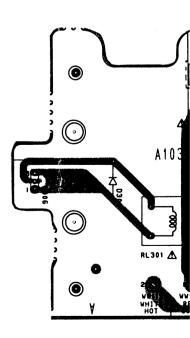
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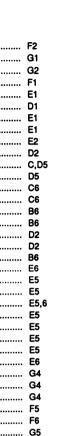


PHONES PCB A1030A50ID



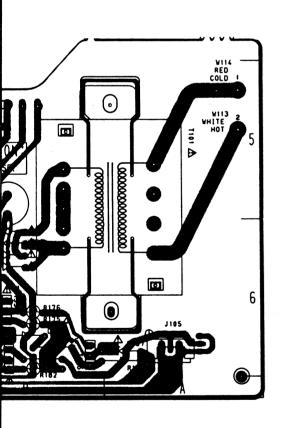
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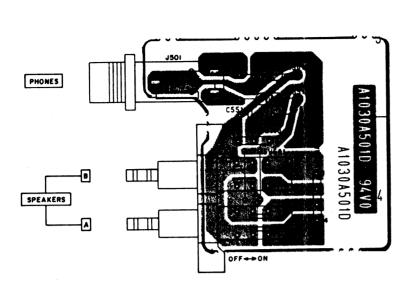


ENTS FOR CONTINUED SAFETY, S ONLY WITH MANUFACTURER'S

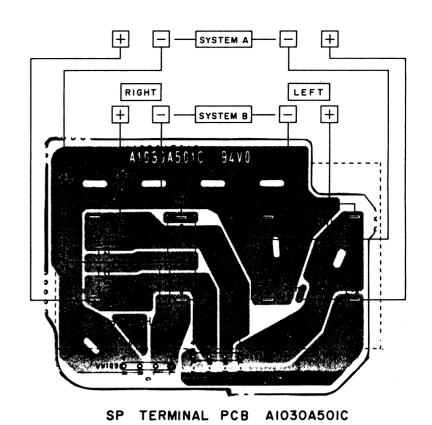
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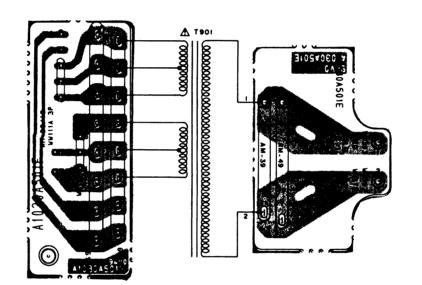


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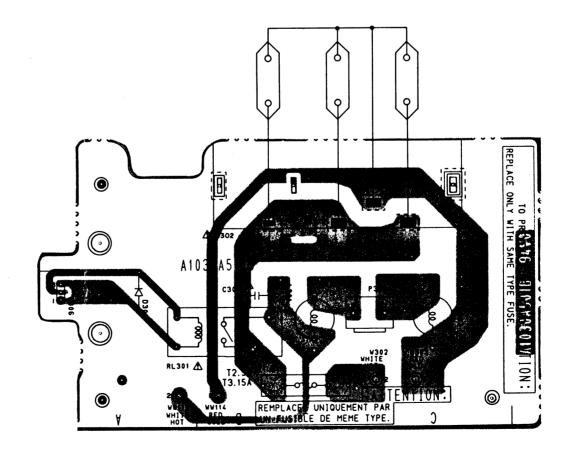
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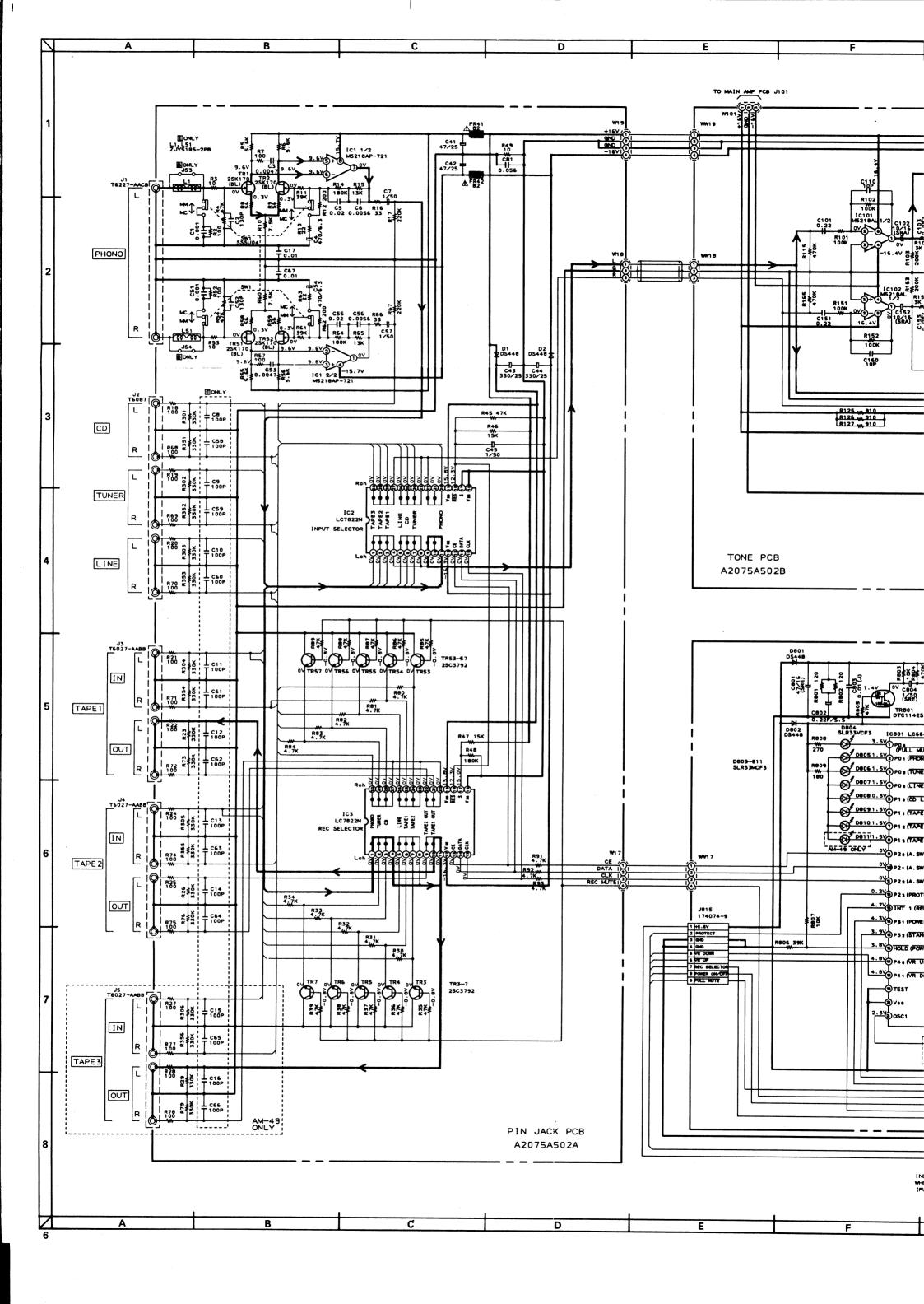


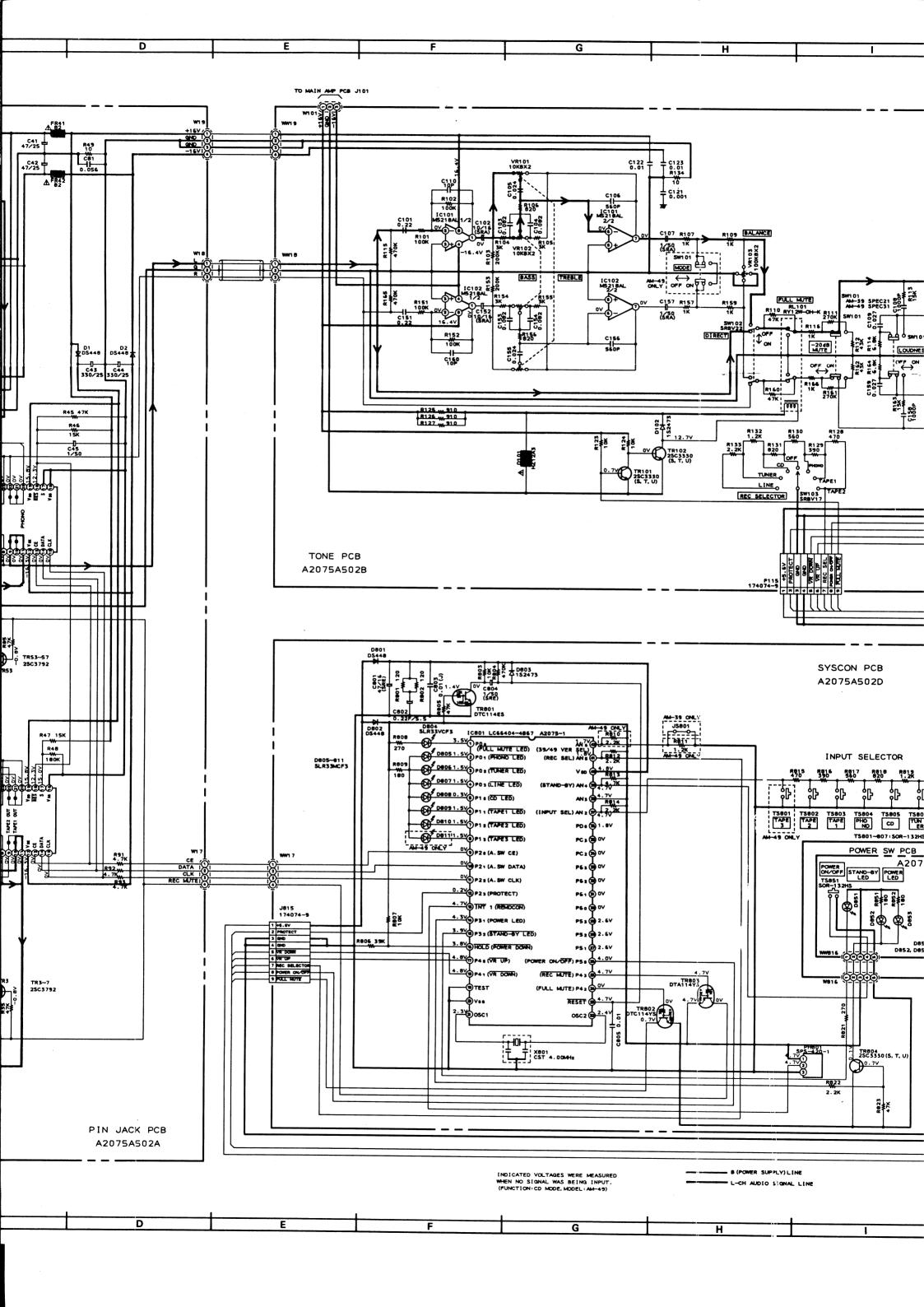
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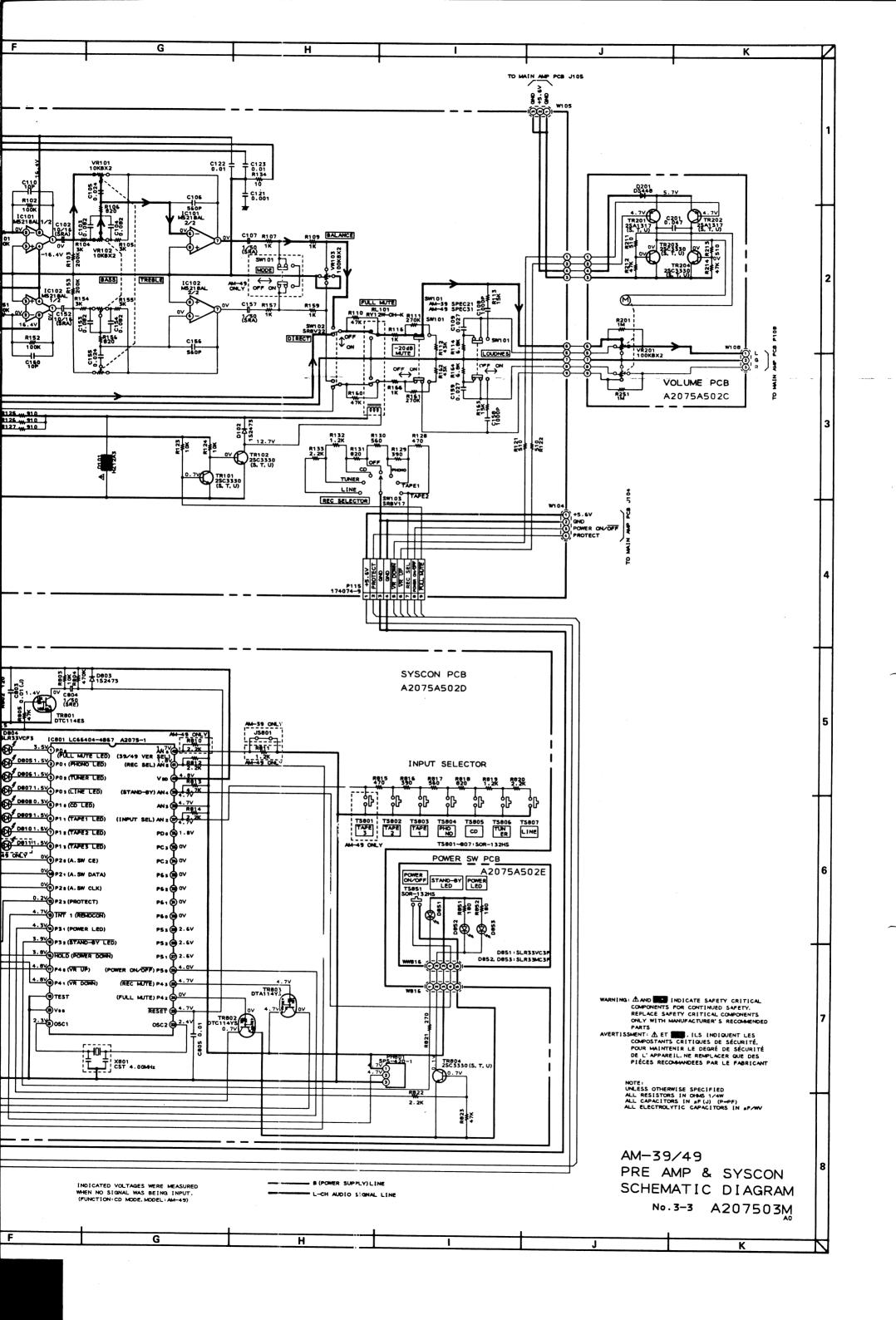
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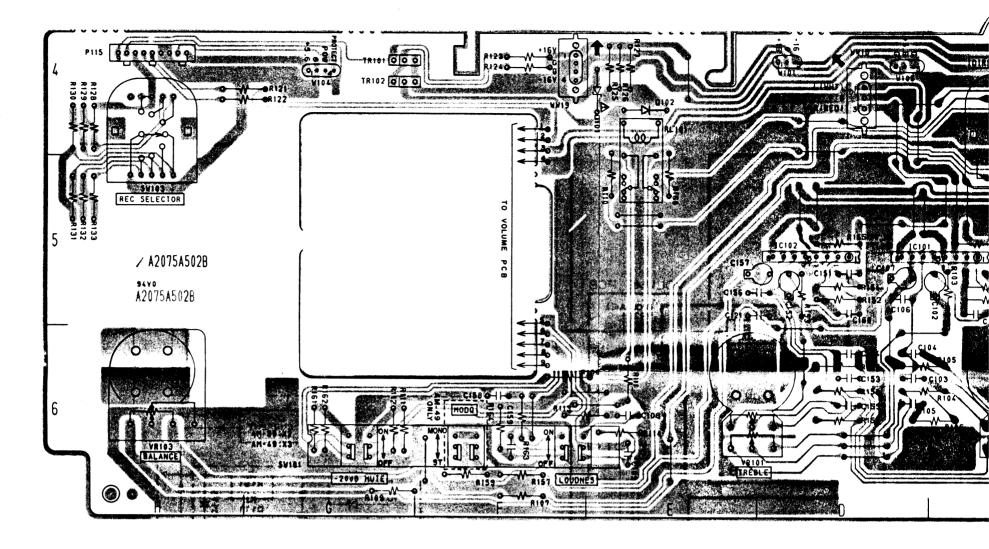


PRIMARY PCB A1030A50IB

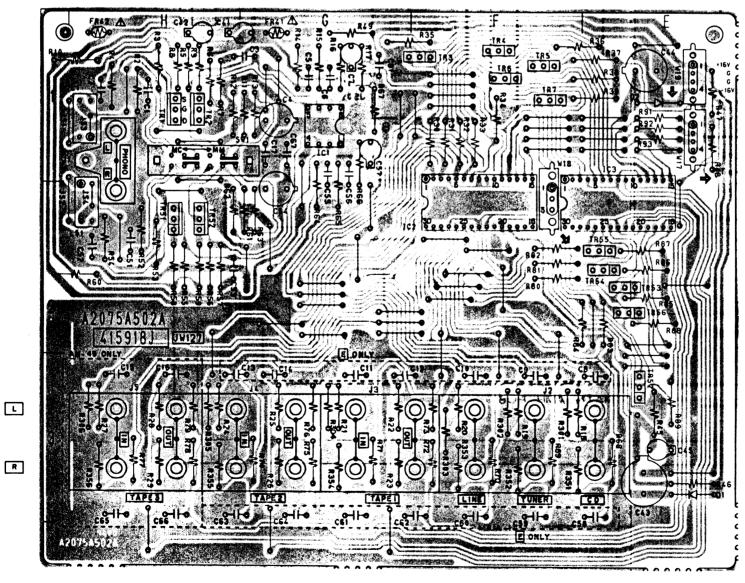








TONE PCB A2075A502B



PIN JACK PCB A2075A502A

WIREs W17 E1 W18 F2 W19 E1 FUSE RESISTORS FR41G1 FR42H1 IC1 IC2 F2 IC3 E2 TRANSISTORS TR4 TR5 TR51H2 TR52 H2 TR53 E2 TR55 E2

PRINCIPAL PARTS LOCATION

CONNECTORS

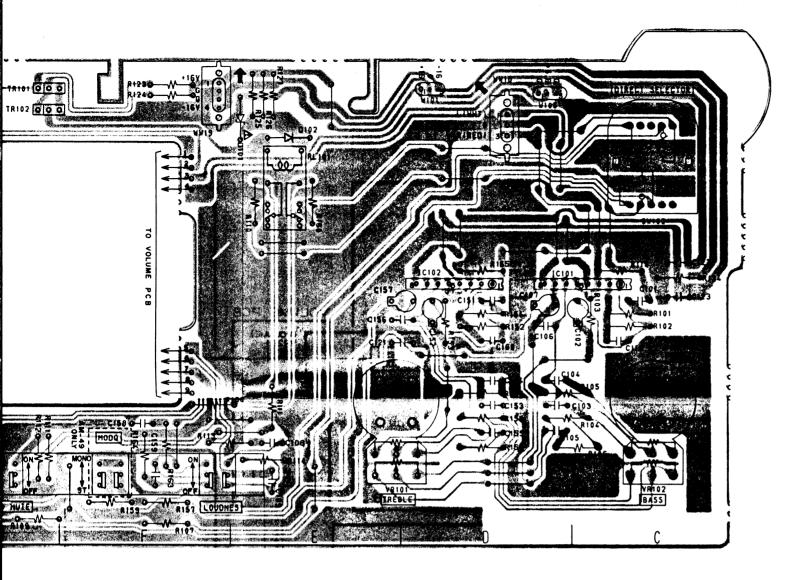
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TR56 E2 TR57 E3

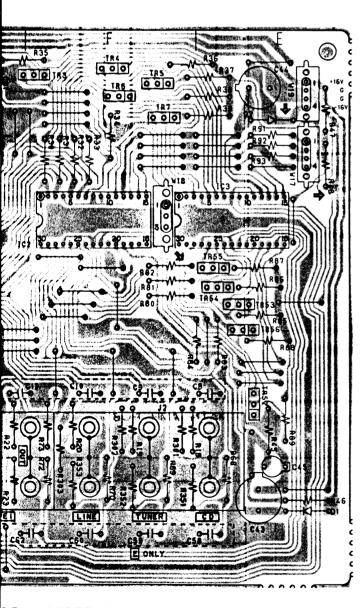
WARNING: AINDICATES SAFETY CRITICAL COMPONENTS FOR CONT REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MA RECOMMENDED PARTS

AVERTISSEMENT: <u>A</u>IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉ POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREII NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR L

R



TONE PCB A2075A502B



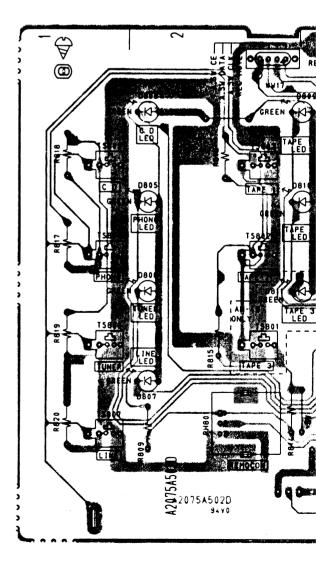
PRINCIPAL	PARTS	LOCATION
CONNECTOR	8	

J1H1 J2F,G3 J3F,G3 J4G,H3 J5H3
WIRES W17
FR41G1 FR42H1
ICs IC1
TRANSISTORS TR1 H1 TR2 H1 TR3 F,G1 TR4 F1 TR5 F1 TR6 F1 TR7 F1 TR51 H2 TR52 H2 TR52 E2 TR54 E2 TR55 E2 TR56 E2 TR57 E3

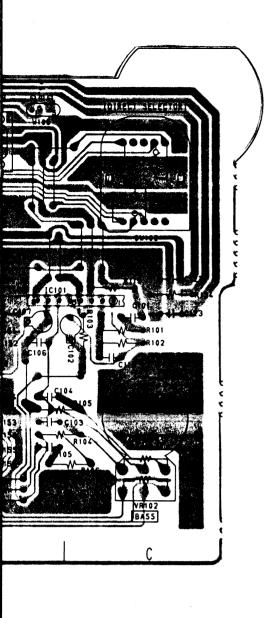
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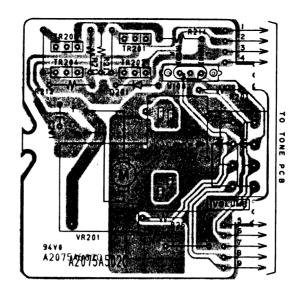
WARNING: AINDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ΔÌL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

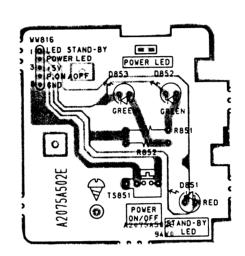


A2075A502A

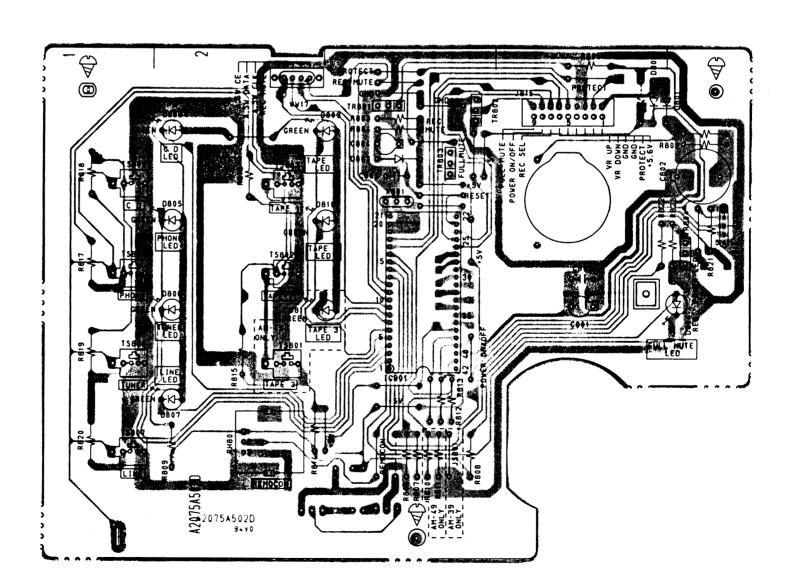




VOLUME PCB A2075A502C



POWER SW PCB A2075A502E



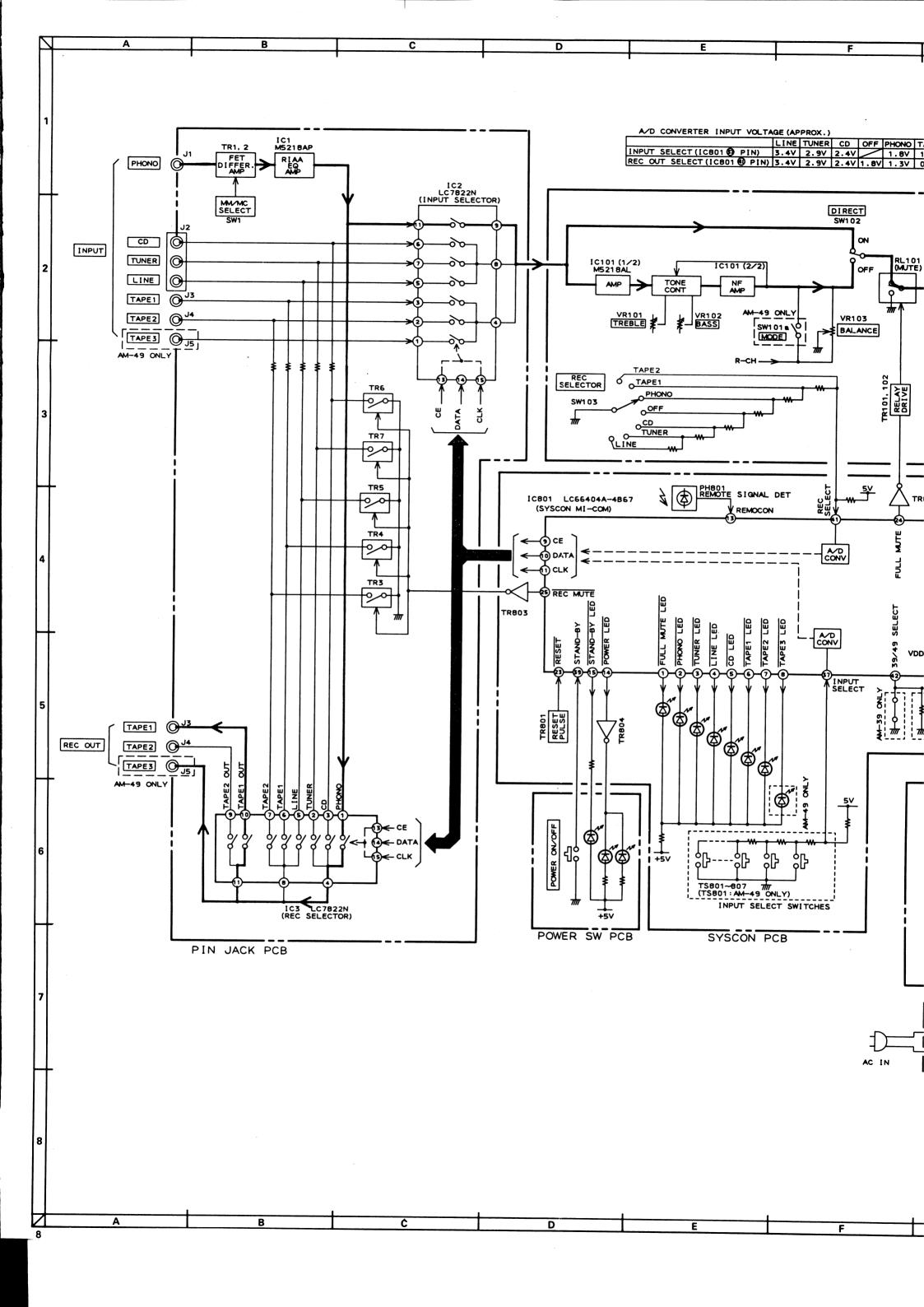
SYSCON PCB A2075A502D

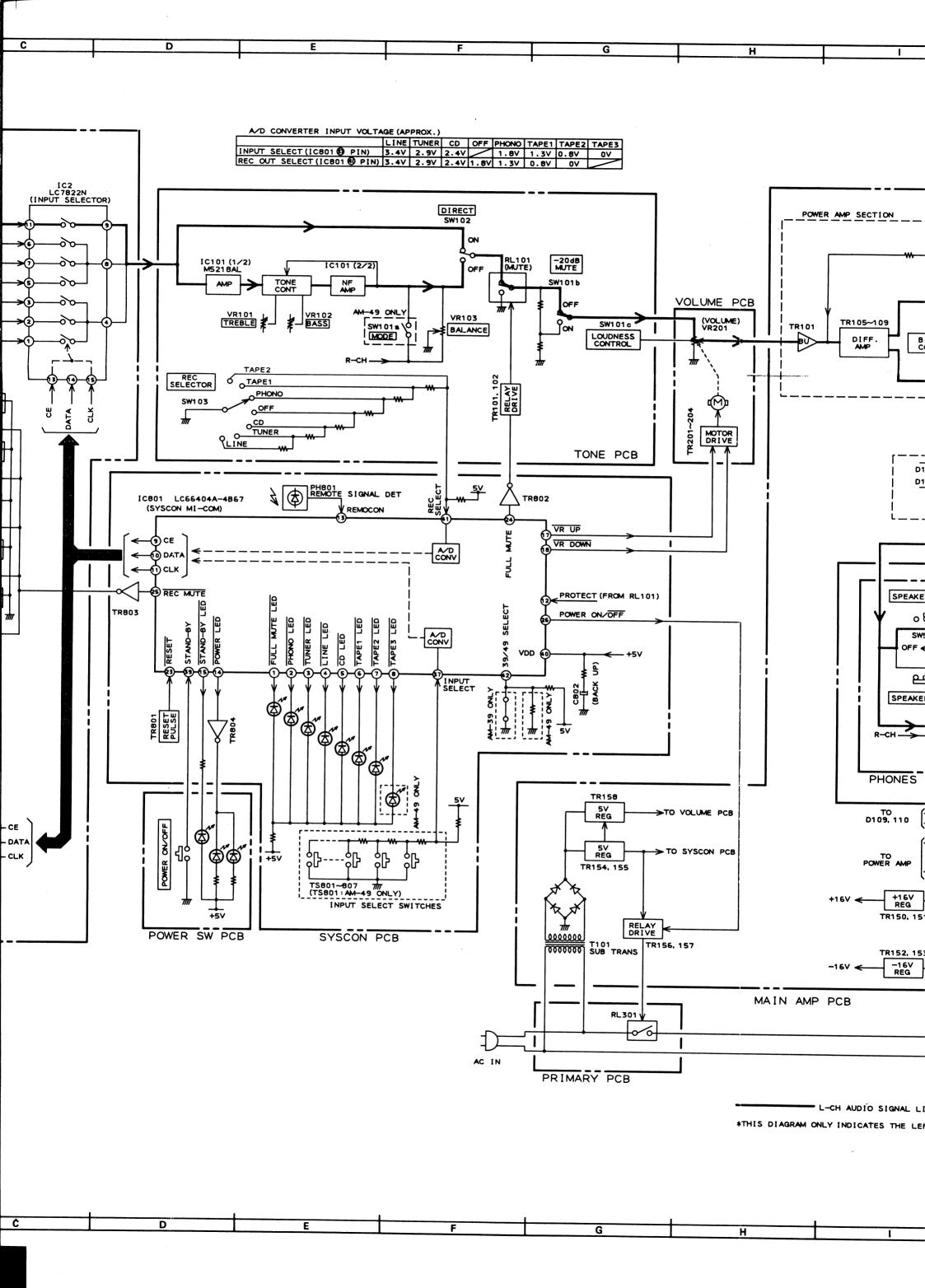
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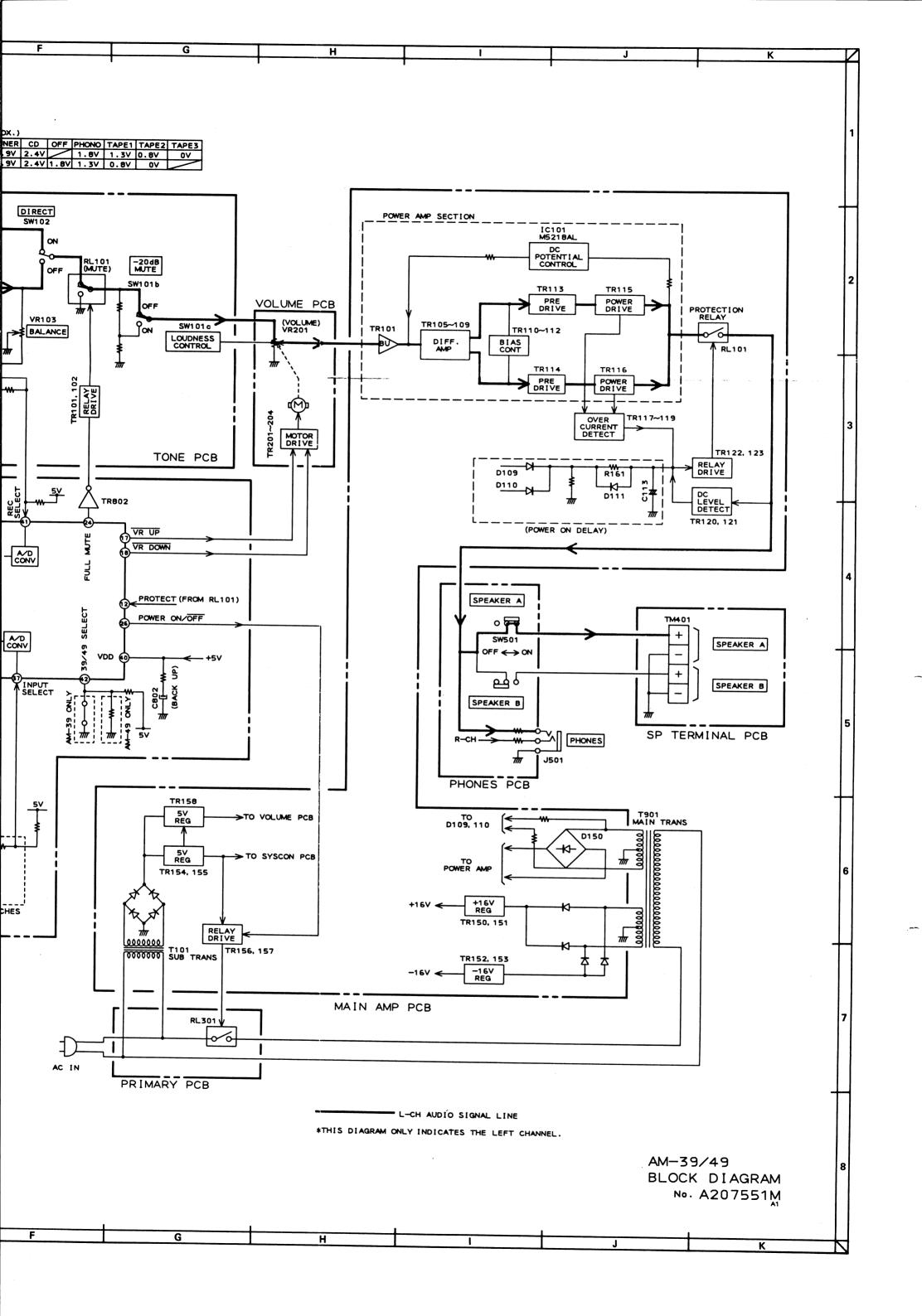
DEPENDING ON MODEL NUMBER. MATIC DIAGRAMS FOR PERTINENT TION.

TICAL COMPONENTS FOR CONTINUED SAFETY, IL COMPONENTS ONLY WITH MANUFACTURER'S

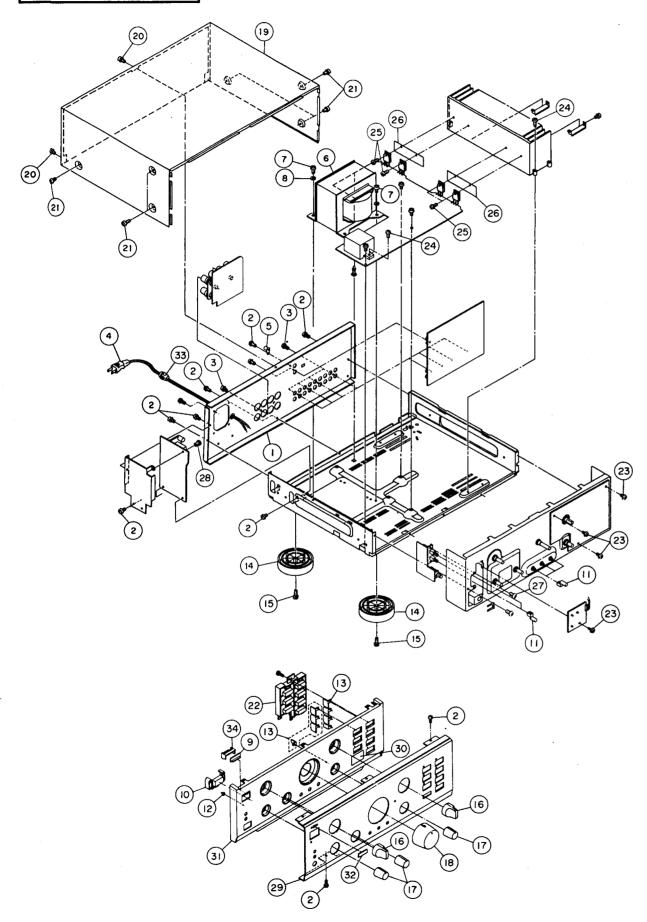
COMPOSANTS CRITIQUES DE SÉCURITÉ. RÉ DE SÉCURITÉ DE L'APPAREIL, PIÈCES RECOMMANDEES PAR LE FABRICANT







FINAL ASSEMBLY BLOCK



12. FINAL ASSEMBLY BLOCK

Ref. No.	Part No.	Description
1-A	SP-415354M	PANEL REAR AM-39 (E) (SG)
1-B	SP-415358M	PANEL REAR AM-39 (B) (SG)
1-C	SP-415359M	PANEL REAR AM-49 (E) (SG)
1-D	SP-415362M	PANEL REAR AM-49 (B) (SG)
2	ZS-393644J	ST BID30X08STL BZN PROJECT
3	ZS-394412J	BT BID30X08STL BZN PROJECTION
4-A	*EW-408724M	AC CORD200 SE1H03VVH2F VHR3N
4-B	*EW-415021M	AC CORD 200 SE-5VCTFK VHR3NB
5	EJ-329610	TERMINAL W/SCREW UB-0067 L 1P
6-A	*BT-415110M	TRANS POW A2075-EV
		[AM-39][T901]
6-B	*BT-415111M	TRANS POW A2075-BS
		[AM-39][T901]
6-C	*BT-415112M	TRANS POW A2076-EV
		[AM-49][T901]
6-D	*BT-415114M	TRANS POW A2076-BS
		[AM-49][T901]
7	ZS-346742	ST BID40X08STL CMT CUP
8	ZW-410640J	SW40STL CMT
9	SE-373237J1	LENS POW
10	SB-415182M	BUTTON POWER (SG)
11	SK-402898J	BUTTON PUSH-B
12	SE-410963M	LENS LED (SG)
13	SE-415346M	LENS SELECTOR (SG)
14	SA-379375	FOOT (N)
. 15	ZS-336714	ST BID30X12STL CMT
16	SK-415178M	KNOB SELECTOR (SG)
17	SK-415180M	KNOB TONE (SG)
18	SK-415349J	KNOB VOLUME PART
19	SP-391360J1	COVER UPPER B
20	ZS-393644J	ST BID30X08STL BZN PROJECT
21	ZS-404225J	ST BID40X08STL BZN
22	SB-415345J	BUTTON SELECTOR
23	ZS-394414J	BT BID30X08STL BZN
24	ZS-336714	ST BID30X12STL CMT
25	ZS-395789J	BT BID30X16STL BZN
26	EZ-401261J	INSULATOR TBM-F FB-20
27	ZS-358936	ST BID30X06STL CMT
28	ZW-698308	RV NYL30X055 BL
29-A	SP-415343J	PANEL FRONT AM-39
29-B	SP-415355J	PANEL FRONT AM-49
30	SE-415347M	FILTER REMOCON (SG)
31	SE-415344M	ESCUTCHEON FRONT (SG)
32	SM-365756C	NAME PLATE AKAI (2)
33	EZ-371605	BUSH CORD 2271
34	SE-373256	CASE LED

NOTE:

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

13. ACCESSARY

Ref. No.	Part No.	Description
1-A	AX-415040M	REMOCON RC-S49 [AM-39]
1-B	AX-415115M	REMOCON RC-S59 [AM-49]

INDEX

Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
			3-D162			+	
AX415040M	13-1-A	ED511907		ER411836J	3-R132	ET378524J	3-TR152
AX415115M	13-1-B	ED511907	3-D163	ER411836J	3-R232	ET378524J	3-TR157
BAA1030T020F	2-1-A	ED511907	3-D164	ES415046J	10-TS801	ET378524J	3-TR210
BAA1030T020G	2-1-B	ED624903	3-D108	ES415046J	10-TS802	ET378524J	3-TR210
						1	
BAA1030T020H	2-1-C	ED624903	3-D111	ES415046J	10-TS803	ET394735J	7-TR3
BAA1030T020J	2-1-D	ED624903	4-D301	ES415046J	10-TS804	ET394735J	7-TR4
BAA2075T030A	2-2-A	ED624903	8-D102	ES415046J	10-TS805	ET394735J	7-TR5
BAA2075T030B	2-2-B	ED624903	10-D803	ES415046J	10-TS806	ET394735J	7-TR6
BAA2075T030C	2-2-C	EF415060J	3-F2	1		1	
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BAA2075T030D	2-2-D	EF415060J	3-F3	ES415046J	11-TS851	ET394735J	7-TR53
BT415037M	3-T101-A	EF415061J	4-F1-A	ES415087J	6-SW501	ET394735J	7-TR54
BT415038M	3-T101-B	EF415062J	4-F1-B	ES415099J	8-SW102	ET394735J	7-TR55
BT415110M	12-6-A	El382875J	10-X801	ES415119J	8-SW101-A	ET394735J	7-TR56
BT415111M	12-6-B	El393323J	3-IC101				
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BT415112M	12-6-C	El393323J	8-IC101	ES415123J	7-SW1	ET397160J	3-TR118
BT415114M	12-6-D	El393323J	8-IC102	ES415126J	8-SW103	ET397160J	3-TR120
EC338496	4-C301	El393326J	7-IC1	ET305463	3-TR105-A	ET397160J	3-TR121
EC364978	3-C159	EI403530J	7-IC2	ET305463	3-TR106-A	1	
EC368118	10-C802		7-IC2 7-IC3			ET397160J	3-TR122
		EI403530J		ET305463	3-TR107-A	ET397160J	3-TR123
EC373373	3-C150-B	El416800J	10-IC801	ET305463	3-TR108-A	ET397160J	3-TR156
EC373373	3-C151-B	EJ329610	12-5	ET305463	3-TR117	ET397160J	8-TR101
EC390066J	3-C150-A	EJ342935	5-TM401	ET305463	3-TR205-A	ET397160J	8-TR102
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ED301911	3-D103	EJ382362J	7-J3	ET305463	3-TR207-A	ET397160J	9-TR204
ED301911	3-D104	EJ382362J	7-J4	ET305463	3-TR208-A	ET397160J	10-TR804
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				ET307195	3-TR203	ET415053J	3-TR215-A
ED301911	3-D203	EO403613J	4-L302	ET307195	3-TR204	ET415056J	3-TR115-B
ED301911	3-D204	EQ400957J	8-RL101	ET307195	3-TR209-A	ET415056J	3-TR215-B
ED301911	3-D205	EQ403529J1	3-RL101	ET322353	3-TR101	EV401270J	8-VR101
ED301911	7-D1	EQ415055J	4-RL301	ET322353	3-TR201	EV401270J	8-VR102
ED301911	7-D2	ER324480	3-R128	ET345625	3-TR113		
ED301911	9-D201	1	•			EV403534J	8-VR103
		ER324480	3-R129	ET345625	3-TR155	EV415032M	9-VR201
ED301911	10-D801	ER328069	3-R175	ET345625	3-TR158	EW408724M	12-4-A
ED301911	10-D802	ER328069	3-R182	ET345625	3-TR213	EW415021M	12-4-B
ED307572	3-D106	ER333108	6-R501	ET345626	3-TR114	EZ371605	12-33
ED307572	3-D107	ER333108	6-R551	ET345626	3-TR153	1	
						EZ401261J	12-26
ED307572	3-D109	ER333119	3-R131	ET345626	3-TR214	SA379375	12-14
ED307572	3-D110	ER333119	3-R231	ET352726	3-TR112	SB415182M	12-10
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ED307572	3-D207	ER341493	3-FR102	ET352726	3-TR154	SE373237J1	12-9
ED319176	8-D101	ER341493	3-FR201	ET352726	3-TR212	SE373256	
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ED330219	3-D112	ER341493	3-FR202	ET353897	10-TR801	SE410963M	12-12
ED343421	3-D159	ER344161	7-FR41	ET353899	3-TR119	SE415344M	12-31
ED343421	3-D160	ER344161	7-FR42	ET353899	9-TR201	SE415346M	12-13
ED346529	3-D167	ER368226	3-R130	ET353899	9-TR202	SE415347M	12-30
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			3-R230		10-TR802	SK402898J	12-11
ED383034J	3-D270	ER368284	3-R125	ET360749	7-TR1	SK415178M	12-16
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ED400680J	10-D806	ER378514J	3-R123	ET360749	7-TR52	SM365756C	12-32
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	10-D807	ER378514J	3-R222	ET368047	3-TR109-B	SP391360J1	12-19
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ED400680J	10-D809	ER378833J	3-R166	ET368048	3-TR105-B	SP415354M	12-1-A
ED400680J	10-D810	ER378833J	3-R169	ET368048	3-TR106-B	SP415355J	12-29-B
ED400680J	10-D811	ER382613J	3-R115	ET368048	3-TR107-B	CD41525614	10 1 D
		I		1		SP415358M	12-1-B
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ED403987J	11-D852	ER382613J	3-R120	ET368048	3-TR205-B	SP415362M	12-1-D
ED403987J	11-D853	ER382613J	3-R215	ET368048	3-TR206-B	ZS336714	12-15
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ZS394414J ZS395789J ZS404225J ZW410640J ZW698308	12-23 12-25 12-21 12-8 12-28						
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ABBREVIATIONS (AMPLIFIER)

ABBREVIATIO	EXPLANATION
Α	Analog
AC	Alternating Current
AMP	AMPlifier
CD	Compact Disc
COM	COMmon
D	Digital
D/A	Digital to Analog
DAC	Digital to Analog Converter
DAT	Digital Audio Tape recorder
DC	Direct Current
GND	GrouND
L	Left
LED	Light Emitting Diode
MC	Moving Coil
MM	Moving Magnet
PCB	Printed Circuit Board
R	Right
REG	REGulator
REC	RECord
TR	TRansistor
sw	SWitch
V.AMP	Voltage AMPlifier
V.DISC	Video DISC
VR	Variable Resistance
VTR	Video Tape Recorder